Fuji Miniature DIN Super Timers

Overview
The ST7P is a compact and highly accurate timer. It is an on-delay operation type with a single timing range. These timers are designed to optimize mounting space in small areas. Mounting is by DIN rail or by securing directly to a panel with a fastener.

Features
- Highly accurate, with a repeat accuracy within ±1% at maximum setting time
- ST7P models offer a number of timing ranges. Please see Selection Guide below
- Large dial makes time setting easy
- LED indicators make it easy to monitor timer operation
- ST7P series meets UL and CSA standards

Product Selection Guide

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Time Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST7P-2A15S-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>100-120VAC</td>
<td>0.4 seconds to 5 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2A13T-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>100-120VAC</td>
<td>2 seconds to 30 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2A16T-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>100-120VAC</td>
<td>4 seconds to 60 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2A11N-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>100-120VAC</td>
<td>1 minute to 10 minutes</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2A16N-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>100-120VAC</td>
<td>4 minutes to 60 minutes</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2DESS-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>24VDC</td>
<td>0.4 seconds to 5 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2DE3T-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>24VDC</td>
<td>2 seconds to 30 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2DE6T-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>24VDC</td>
<td>4 seconds to 60 seconds</td>
<td>$40.00</td>
</tr>
<tr>
<td>ST7P-2DE1N-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>24VDC</td>
<td>1 minute to 10 minutes</td>
<td>$39.00</td>
</tr>
<tr>
<td>ST7P-2DE6N-ADC</td>
<td>Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved</td>
<td>24VDC</td>
<td>4 minutes to 60 minutes</td>
<td>$39.00</td>
</tr>
<tr>
<td>TP88X2</td>
<td>DIN rail/surface mount socket for ST7P series timers. UL, CSA, TÜV approved</td>
<td>N/A</td>
<td>N/A</td>
<td>$7.50</td>
</tr>
</tbody>
</table>
# Fuji Miniature DIN Super Timer Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>UL file no.: Body - E44592, Socket - E90266; TÜV license no: R9551799</td>
</tr>
<tr>
<td>Repeat Accuracy</td>
<td>±01% at maximum setting time</td>
</tr>
<tr>
<td>Reset Time</td>
<td>0.1 second or less</td>
</tr>
<tr>
<td>Maximum Operating Cycle</td>
<td>1800 cycles/hour</td>
</tr>
<tr>
<td>Operating Voltage Range</td>
<td>ST7P-2A15S-ADC 85-132 VAC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>ST7P-2A18T-ADC 20.4-26.4 VDC</td>
</tr>
<tr>
<td></td>
<td>ST7P-2A16T-ADC</td>
</tr>
<tr>
<td></td>
<td>ST7P-2A11N-ADC</td>
</tr>
<tr>
<td></td>
<td>ST7P-2A16N-ADC</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-10 to +50°C (14 to 122°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>35 to 85% (no condensation)</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>3A @ 240 VAC resistive load, 1 A @120 VAC inductive load, 3A @ 30 VDC resistive load, 0.5 A @ 30 VDC inductive load</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Approx. 1.2 VA at 100 VAC, approx. 1.5 VA at 200 VAC, 1.1 W at 24 VDC.</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>100MΩ at 500 VDC insulation tested</td>
</tr>
<tr>
<td>Surge Voltage*</td>
<td>3000 Volts</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>2000 VAC 1 min. between current carrying part and non-current carrying part</td>
</tr>
<tr>
<td></td>
<td>2000 VAC 1 min. between output contact and control circuit</td>
</tr>
<tr>
<td></td>
<td>1000 VAC 1 min. between open contacts</td>
</tr>
<tr>
<td>Vibration</td>
<td>Malfunction durability: 10 to 55Hz, 0.5mm double amplitude</td>
</tr>
<tr>
<td></td>
<td>Mechanical durability: 10 to 55Hz, 0.7mm double amplitude</td>
</tr>
<tr>
<td>Shock</td>
<td>Malfunction durability: 50m/s²</td>
</tr>
<tr>
<td></td>
<td>Mechanical durability: 1000m/s²</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td>Mechanical: 50 million operations (No load; operation cycle 1800/hr.)</td>
</tr>
<tr>
<td></td>
<td>Electrical: 500,000 operations (3A @ 220 VAC, resistive load; operation cycle 1800/hr.)</td>
</tr>
<tr>
<td>Weight</td>
<td>36.288 g (1.28 oz.)</td>
</tr>
</tbody>
</table>

* Note: If surge voltage exceeds 3000V, use surge suppressors.
Fuji Miniature DIN Timers, Dimensions, Timing and Wiring

Dimensions - ST7P Timer

Dimensions - TP88X2 Socket

Panel Mounting

Wiring Diagram

Sockets/Screw Terminal and Rail Mounting

Timing Diagram

All dimensions in mm [inches]